

Ilyas Ibragimov

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Summary

Financial technology developer with 5+ years building mission-critical data systems for leading hedge funds. Engineered solutions that delivered \$1MM + in cost savings while transforming terabytes of market data into actionable intelligence. Skilled in leveraging AI tools and advanced prompt engineering to accelerate development workflows.

Experience

Two Sigma (Insight Global)

New York, NY (Remote)

Software Developer

November 2022 - Present

- Spearheaded the back-end development of a firm-wide total cost tracking system using dbt and BigQuery, delivering real-time cost visibility that informed executive-level strategic decisions and optimized resource allocation across all departments, tracking over \$80MM in annual spending.
- Designed and deployed automated Python and Bash-based ELT data loader tooling, integrating 8+ critical cost data sources (Jira, Datadog, AWS S3, CMDB, etc) into BigQuery and PostgreSQL, enhancing cost transparency by 40%, and powering any cost analytics systems.
- Strategically transitioned the firm's pipelines from Apptio to dbt and BigQuery, achieving over \$1MM in annual cost savings utilizing Python and SQL while reducing data processing time by 65%.
- Optimized the total-cost tracking system to efficiently process 100+ TB of cloud usage data daily, accelerating cost insights and enabling real-time cloud spend management.
- Championed data engineering excellence by leading interactive dbt workshops, delivering compelling live-demos of cost analytics, and creating comprehensive documentation that accelerated adoption of best practices across multiple departments.
- Partnered with teams across departments to enhance cost data automation, providing hands-on coaching that aligned technical implementations with the firm's cost visibility goals.
- Leveraged AI coding assistants in daily development workflows, developing effective prompt engineering techniques that increased personal productivity by 30% and significantly reduced debugging time

Blueshift Asset Management

Red Bank, NJ

Software Developer

January 2020 - November 2022

- Engineered a comprehensive portfolio monitoring ecosystem featuring a real-time terminal-based GUI for intraday analytics, automated daily investor reporting tools, and robust historical performance tracking capabilities that reduced analysis time by 65% and supported \$500M+ in managed assets.
- Overhauled the fund's proprietary C++ trading platform by implementing performance-critical optimizations that reduced storage requirements by hundreds of terabytes, decreased production server load by 40%, and streamlined developer workflows, directly enhancing trading capabilities.
- Built Python/Selenium based web-scrappers delivering market data that directly powered trading algorithms and investment research.
- Engineered direct programmatic connections to multiple equity and crypto exchanges, streamlining order execution and market data acquisition that substantially expanded the fund's trading liquidity.
- Designed a real-time compliance monitoring system that automatically flags trading violations, preventing transactions involving restricted securities and safeguarding the firm against regulatory penalties.

Fidessa

Woking, UK

Platform Development Intern

July 2018 - September 2018

- Engineered a secure file transmission platform using JavaScript, jQuery, HTML, CSS, Java, and TCL that eliminated recurring data breaches, protected confidential client information for 200+ clients, and replaced vulnerable manual processes.

Skills

Languages & Database Technologies: Python, SQL, Bash, C++, JavaScript
Data Engineering & Analytics: dbt, BigQuery, PostgreSQL, Pandas, NumPy, ETL/ELT Pipelines
Cloud & Infrastructure: Google Cloud Platform, AWS
Web Technologies: Flask, Django, Selenium, RESTful APIs, HTML/CSS, Bootstrap
Developer Tools: Git, GitHub, GitLab, CI/CD, Jira, VS Code, Vim
AI & Automation: LLM Prompt Engineering, AI-Assisted Coding, Automated Test Generation, GitHub Copilot, Claude
Technical Expertise: Data Warehousing, Data Pipeline Architecture, Web Scraping, Machine Learning Integration

Education

Master of Engineering (MEng Electronic & Electrical) London, UK
University College London (UCL) • Minor in Intelligent Systems • First Class Honors (4.0 GPA Equivalent) 2019
• **Related Courses:** *Applied Machine Learning Systems, Machine Learning and Neural Computing, Cognitive Systems and Intelligent Technologies, Robotic Systems, Control Systems, Programming, Mathematical Modelling and Analysis, Advanced Digital Design*

High School Diploma, Mathematics Major Brooklyn, NY
Brooklyn Technical High School • 4.0 GPA 2015
• **Math Team**

Certifications

C++ Programming for Financial Engineering Certificate - Distinction
Baruch College MFE Program • 2020
• Advanced program covering C++ implementation for algorithmic trading, risk modeling, and financial derivatives pricing, with hands-on projects using industry-standard quantitative libraries.

Projects

University College London (UCL) | *Network Packet Routing with Deep Reinforcement Learning - MEng Final Thesis, First Class Honors*
• Optimized network packet routing by creating and implementing advanced deep reinforcement learning models, enhancing the networking efficiency and effectiveness of software-defined networks using Python, OpenAI Gym, and TensorFlow.

University College London (UCL) | *Deep Learning Applications in Cryptocurrency Trading - BEng Final Thesis, First Class Honors*
• Enhanced predictive accuracy for cryptocurrency returns through thorough testing and refinement of LSTM networks with Python/Keras, utilizing extensive data mining processes.